

Division of Land and Water Management

Personal Details



Dr. Pawan Jeet
Scientist (LWME)

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Research Interest

Land and Water Management
Farming system model for small and marginal farmers

Research Highlights

On-farm water management, Canal water management, Multiple uses of water, Participatory water management, Conjunctive use of canal water and groundwater, Micro irrigation, Rainwater harvesting Modeling, Crop and hydrological modeling.

Memberships / Fellowships

Life Member, Indian Society of Agricultural Engineers

Life Member, The Indian Science Congress Association

Technology Developed

Standardize drip irrigation system for *Flemingia Semialata* lac host plant.

Publication Details

A. Research papers published

- **P Jeet**, G Immanuel and O Prakash (2015). Effects of blanching on the dehydration characteristics of unripe banana slices dried at different temperature. *Agricultural Engineering International: CIGR Journal*, 17 (2).
- **P Jeet**, N Patel and TBS Rajput (2016). Micro-Irrigation System Installation in the Regions of Poor Groundwater Quality and Uneven Canal Water Supply in India. *Advances in Life Sciences*, 5 (21), 9871-9878.
- **P Jeet**, N Patel and TBS Rajput (2016). On-Farm Balancing Reservoir Design on the Basis of Canal Water Availability and Ground Water Quality. *Journal of AgriSearch*, 3 (1), 26-31.
- **P Jeet**, DK Singh, A Sarangi, SD Singh, MA Iquebal and R Kumar (2017). Modeling, Probability Analysis and Forecasting of Rainfall in Betwa River Basin in Bundelkhand Region, India. *IJAIR*, 6 (2), 312-319.
- SK Srivastava and **P Jeet** (2018). Effect of drip irrigation and plastic mulch on growth and seed yield of *Flemingia semialata*. *Multilogic in Science*, 8B, 397-398.

- **P Jeet** and N Patel (2018). Study of the hydraulic parameters of existing water storage structures in Bhakra Main canal command area of Sirsa district, Haryana. *Journal of AgriSearch*, 5 (3), 193-199.
- **P Jeet**, Singh DK and Sarangi A. (2019). Groundwater potential in a drought prone Betwa river basin, Bundelkhand. *Indian Journal of Agricultural Sciences*, 89(10): 1623-27.
- **P Jeet**, DK Singh and A Sarangi (2019). Development of a composite hydrologic index for semi-arid region of India. *Groundwater*, <https://doi.org/10.1111/gwat.12867>.
- Shuchi Kumari, IB Bhagat, Hansraj Hans, **Pawan Jeet**, Saba Praveen (2019). Estimation of ground water for irrigating the cropped land of Samastipur, Bihar. *Journal of Pharmacognosy and Phytochemistry*, 8(6):2550-2553.
- SK Srivastava and **P Jeet** (2020). Effect of Irrigation Methods and Mulching on Growth and Seed Yield of Semialata. *Journal of AgriSearch*, 7(1), 18-20.

B. E-Publications/Popular Articles:

- **P Jeet**, PK Sundaram, A Ahmed and M Debnath (2018). Combined use of surface and groundwater for good farming. <http://www.krishisewa.com/articles/resource-management/933-combined-use-of-surface-and-groundwater-for-good-farming.html>.
- PK Mishra, A Kumar and **P Jeet** (2018). Scientific cultivation of Tulsi and its importance. <http://www.krishisewa.com/articles/production-technology/940-scientific-cultivation-of-tulsi-and-its-importance.html>.
- **P Jeet**, PK Sundram, A Kumar and PK Mishra (2018). जैव जल निकासी तकनीक - जलाक्रांत क्षेत्रों के लिए पर्यावरण अनुकूल समाधान. <http://www.krishisewa.com/articles/resource-management/945-biodrainage-an-ecofriendly-solution-for-waterlogged-areas.html>.
- PK Mishra, **P Jeet** and A Kumar (2019). आलू की जैविक खेती. <http://www.krishisewa.com/articles/organic-agriculture/965-methods-of-organic-farming-of-potatoes.html>
- Srivastwa SK, Ghosal S and **Jeet P.** (2019). बूंद-बूंद सिंचाई पद्धति के उपयोग से सेमियालता की अच्छी बढ़त. *लाक्षा*, 11(01):5-6.
- **Jeet P**, Singh DK and Sundaram PK. (2019). समय हाइड्रोलोजिक सूचकांक: भूजल पुनर्भरण के आंकलन का साधन. <http://www.krishisewa.com/articles/resource-management/994-composite-hydrologic-index-groundwater-recharge-estimation-tool.html>.
- Ahmed A, Kumar A, Manibhushan, Mondal S and **Jeet P.** (2019). Use of IoT based irrigation scheduling for smart farming. <http://www.krishisewa.com/articles/miscellaneous/1018-use-of-iot-based-irrigation-scheduling-for-smart-farming.html>
- Sundaram PK, Kumar R and **Jeet P.** (2019). हैप्पी सीडर: संसाधन संरक्षण का मशीन. *कृषि मञ्जूषा*, October: 9-12.
- Ahmed A, Pathak P and **Jeet P.** (2019). मृदा एवं जल संरक्षण में घाँस की भूमिका. *कृषि मञ्जूषा*, April: 50-52.
- **Jeet P**, Ahmed A and Kumar A. (2020). On-Farm Water Management Practices: Need and Future Prospects in Bihar. *Food and Scientific Reports*, 1(8):20-22.

- Bikram Jyoti, Om Prakash, Manmohan Deo, **Pawan Jeet**, Prem Kumar Sundaram, S. Prakash, R. Potdar and P.C. Jena. (2019). तमिलनाडु में कसावा के कटाई के लिए यंत्र. कृषि अभियांत्रिकी दर्पण, July: 52-53.
- Bikram Jyoti, Om Prakash, Manmohan Deo, **Pawan Jeet**, Prem Kumar Sundaram, A. Pandirwar, C. Sawant and A. K . Rawal. (2019). विकाशशील देशों में कॉफी के फसल की कटाई के लिए मशीन की जरूरत. कृषि अभियांत्रिकी दर्पण, July: 54-55.
- पवन जीत, प्रेम कुमार सुन्दरम, राकेश कुमार, विक्रम ज्योति, रविंद्र रांधे, हितेश बिजारणिया, ओम प्रकाश एवं मन मोहन देव (2019). सिंचाई दक्षता में सुधार के लिए प्रबंधन तकनीक. कृषि अभियांत्रिकी दर्पण, July: 56-59.
- पवन जीत, रविन्द्र रान्धे, विक्रम ज्योति, प्रेम कुमार सुन्दरम, राकेश कुमार, ओम प्रकाश एवं मन मोहन देव. संयोजित जल उपयोग क्षेत्रों में कुशल जल प्रबंधन के लिए संतुलन जलाशय. कृषि अभियांत्रिकी दर्पण, July: 60-63.

C. Important Book chapters

- **Jeet P.** (2019). Water budgeting for climate resilient cropping with special reference to Eastern Indo-Gangetic Plains. *In: Mishra, J.S. et al. (eds.). Conservation Agriculture for Climate Resilient Farming & Doubling Farmers' Income*, 246p. ICAR Research Complex for Eastern Region, Patna. Published by ICAR RCER, Patna, pp. 128-133.
- Sundaram, P.K.; Sarkar, B.; **Jeet, P.**; Parray, R.A. and Jyoti, B. (2018). Role of Farm Mechanization in Mitigating Climate Change Effects. *In: Mishra, J.S. et al. (eds.). Conservation Agriculture: Mitigating Climate Change Effects & Doubling Farmers' Income*, 269 p. Published by ICAR RCER, Patna, pp. 115-121.
- **Jeet P.** (2019). Water budgeting for climate smart farming. *In: Kumar, U. et al. (eds.). Recent Innovations in Climate Smart Technologies in Agriculture and its up-scaling Strategies*, 112 p. Published by ICAR Research Complex for Eastern Region, Patna-800014, pp. 73-78.
- Prem K Sundaram, Bikash Sarkar, Rakesh Kumar, Sanjay K Patel and **Pawan Jeet**. (2019). Farm Mechanization for Small and Marginal Farmers. Recent advances in horticulture and post-harvest technologies for livelihood security. Published by ICAR Research Complex for Eastern Region, Patna-800014, pp. 82-91.